Claims

What is claimed is:

1. A color filter manufacturing method for a plastic substrate, comprising the steps of:

providing a plastic substrate with an extrusion method, the substrate has multiple grooves with at least one surface containing photo-resists;

filling the primary colors of red R, green G, blue B into the groove of the plastic substrate by jetting to form the primary colors of R, G, B;

jetting the black photo-resist liquids by the inkjet printing method and forming a black photo-resist; and

covering a plane passivation layer on the top surface of the plastic substrate.

2. The color filter manufacturing method according to claim 1, wherein the surface of the plastic substrate around the groove can be a smooth surface.

3. The color filter manufacturing method according to claim 1, wherein the surface of the plastic

substrate around the groove can be a rough surface.

4. The color filter manufacturing method according to claim 1, wherein the black photo-resist is formed on the surface of the plastic substrate apart from the space of R, G, B photo-resists.

5. The color filter manufacturing method according to claim 1, wherein the black photo-resist is formed on the pre-set groove of the bottom plastic substrate. The position of the groove and the groove of R. G. B. photo-resists are staggered.

6. The color filter manufacturing method according to claim 1, wherein the groove with R, G, and B photo-resists is with a plane surface.

7. The color filter manufacturing method according to claim 1, wherein the groove with R, G, and B photo-resists is with a lumpy surface.

8. A color filter manufacturing method for a plastic substrate, comprising the steps of:

providing a plastic substrate with an extrusion method, the substrate has multiple grooves with at least one surface containing photo-resists;

filling the primary colors of red R, green G, blue B into the groove of the plastic substrate by jetting to form the primary colors of R, G, B; and

covering a plane passivation layer on the top surface of the plastic substrate.

9. The color filter manufacturing method according to claim 8, wherein the surface of the plastic substrate around the groove can be a smooth surface.

10. The color filter manufacturing method according to claim 8, wherein the surface of the plastic substrate around the groove can be a rough surface.